Monsanto

FROM (NAME & LOCATION): W. B. Papageorge - General Offices

DATE: July 1, 1971

SUBJECT: AROCLOR REFINING

REFERENCE:

TO: 5260
J. R. DURLAND

cc: P. G. Benignus - B2SH
H. S. Bergen - B1SA
D. Danna - B2NA
T. L. Gossage - B2SL
5260 - T. Katayama
1760 - R. E. Keller/E. S. Tucker
1960 - R. H. Munch
W. R. Richard - T3A
5260 - S. Uneno
E. P. Wheeler - A2SA

I regret and apologize for the delay in responding to your letter to Howard Bergen dated June 3, to Mr. Uneno's letter to me dated May 18 and to Mr. Katayama's questions which Paul Benignus indicated in his letter dated May 28 would be answered by Ralph Munch. Assembling the available data and updating it took longer than we had anticipated.

Since all of these letters raised the same questions regarding the biodegradability and toxicity of Aroclors, I thought one response would be appropriate and avoid duplication of effort.

I have attached to your copy the following reports:

1. 21-day Chick Edema Study - Aroclor 5460
2. Egg Hatchability and Chick Viability Study
3. Oral LD_{50} (Rats) - Aroclor 5460
4. Vapor Inhalation - Male Rats - Aroclor 5460
5. Subacute Dermal Toxicity - Aroclor 5460
6. 90-Day Subacute Oral Toxicity - Rats - Aroclor 5460
7. Chicken Toxicity - Aroclor 5460
8. Semi-Continuous Activated Sludge Degradation Studies by Dr. E. S. Tucker
9. MCS-1016 - An Environmentally Compatible Aroclor
10. Biodegradability of Polychlorinated Biphenyls by J. H. Mainprize
11. Determination of Biodegradability of Organic Compounds by the Semicontinuous Activated Sludge Method
12. 30-Day Tissue Collection Study - Rats - Aroclors
13. Analysis of Biological Materials for Polychlorinated Biphenyls
14. 90-Day Subacute Oral Toxicity - MIPB
15. 90-Day Subacute Oral Toxicity - HB-40

These reports represent our total current knowledge in these areas. Biodegradation studies continue:

IM 10 REV 11-65

MCS 1016/Aroclor 1142 Distillation Residue
complete by August 1

Aroclor 5460/Aroclor 5432
complete by December 1

Toxicity studies currently underway are:

Acute Fish Toxicity Study - Aroclor 1221, Aroclor 5432, Aroclor 5442, Aroclor 5460 and Aroclor 1016

90-Day Subacute Oral Toxicity - Rats - Aroclor 1221, Aroclor 5432, Aroclor 5442, Aroclor 1016

90-Day Subacute Oral Toxicity - Dogs - Aroclor 1221, Aroclor 5432, Aroclor 5442, Aroclor 1016

Final reports are expected by October 1.

Chicken and egg reproduction studies with Aroclor 1016, Aroclor 1221, Aroclor 5432 and Aroclor 5442 will begin in late July.

W. B. Papageorge

mcm

Enclosure